

Abstract Submitted
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N-body numerical simulation of particle transport in the presence of background magnetic field¹ YASUTARO NISHIMURA, National Cheng Kung University — Coulomb collisional process and Debye shielding is investigated in the presence of external magnetic field employing N-body numerical simulation.² Conventional Debye shielding can be prevented when the electron Larmor radius becomes comparable or smaller than the Debye length. Ambipolar diffusion, both in the parallel and the perpendicular direction is examined.

¹Taiwan MOST 107-2112-M-006-013

²C.P.Wang and Y.Nishimura, IEEE Transactions on Plasma Science, 47, 1196 (2019).

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